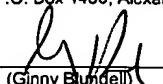




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Dated: 9/19/05 Signature: 
(Ginny Blundell)

1647
Docket No.: CIBT-P01-058
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Lu et al.

Application No.: 09/499526

Confirmation No.: 1398

Filed: February 10, 2000

Art Unit: 1647

For: METHODS AND REAGENTS FOR
TREATING GLUCOSE METABOLIC
DISORDERS

Examiner: R. M. Deberry

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

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In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

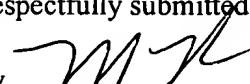
It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 18-1945 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. CIBT-P01-058. A duplicate copy of this paper is enclosed.

Dated: 9/19/05

Respectfully submitted,

By



Melissa S. Rones, Ph.D.

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Attorneys/Agents For Applicant



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FEE TRANSMITTAL

For FY 2005

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00)
Complete if Known

| | |
|----------------------|-------------------|
| Application Number | 09/499526 |
| Filing Date | February 10, 2000 |
| First Named Inventor | Kuanghui Lu |
| Examiner Name | R. M. Deberry |
| Art Unit | 1647 |
| Attorney Docket No. | CIBT-P01-058 |

METHOD OF PAYMENT (check all that apply)

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FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
| | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES**Fee Description**

Each claim over 20 (including Reissues)

| Fee (\$) | Small Entity Fee (\$) |
|----------|-----------------------|
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50 25

Each independent claim over 3 (including Reissues)

200 100

Multiple dependent claims

360 180

| Total Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims | Fee (\$) | Fee Paid (\$) |
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3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
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4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00

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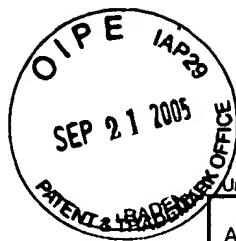
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|-------------------|-------------------------|-----------------------------------|--------|-----------|----------------|
| Signature | | Registration No. (Attorney/Agent) | 54,408 | Telephone | (617) 951-7653 |
| Name (Print/Type) | Melissa S. Rones, Ph.D. | | | Date | 9/19/05 |

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References 79, CN2-CN5



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| Substitute for form 1449A/B/PTO | | | | Complete If Known | |
| | | | | Application Number | 09/499526 |
| | | | | Filing Date | February 10, 2000 |
| | | | | First Named Inventor | Kuanghui Lu |
| | | | | Art Unit | 1647 |
| | | | | Examiner Name | R. M. Deberry |
| Sheet | 1 | of | 5 | Attorney Docket Number | CIBT-P01-058 |

| U.S. PATENT DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| NON PATENT LITERATURE DOCUMENTS | | | | | |
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| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ² |
| | CN2 | Ando, R.; et al., "Feeding responses to several neuropeptide Y receptor agonists in the neonatal chick," <i>Eur J Pharmacol.</i> , 427(1):53-59 (2001). | | | |
| | CO2 | Andres, C. J., et al., "Differentially functionalized diamines as novel ligands for the NPY2 receptor," <i>Bioorg Med Chem Lett.</i> , 13(17):2883-2885 (2003). | | | |
| | CP2 | Bader, R., et al., "Key Motif to Gain Selectivity at the Neuropeptide Y5-Receptor: Structure and Dynamics of Micelle-Bound [Ala31, Pro32]-NPY," <i>Biochemistry</i> , 41(25):8031-8042 (2002). | | | |
| | CQ2 | Balasubramaniam, A., et al., "Structure-activity studies of peptide YY(22-36): N- α -Ac-[Phe27]PYY(22-36), a potent antisecretory peptide in rat jejunum," <i>Peptides</i> , 14(5):1011-1016 (1993). | | | |
| | CR2 | Balasubramaniam, A., et al., "Synthesis of neuropeptide Y," <i>Int J Pept Protein Res.</i> , 29(1):78-83 (1987). | | | |
| | CS2 | Balasubramaniam, A., et al., "Syntheses and Receptor Affinities of Partial Sequences of Peptide YY (PYY)," <i>Peptide Research</i> , 1(1):32-35 (1988). | | | |
| | CT2 | Balasubramaniam, A., et al., "Bis(31/31')-[Cys31, Nva34]NPY(27-36)-NH ₂): a neuropeptide Y (NPY) Y5 receptor selective agonist with a latent stimulatory effect on food intake in rats," <i>Peptides</i> , 23(8):1485-1490 (2002). | | | |
| | CU2 | Balasubramaniam, A., "Neuropeptide Y Family of Hormones: Receptor Subtypes and Antagonists," <i>Peptides</i> , 18(3):445-457 (1997). | | | |
| | CV2 | Beck, A., et al., "Highly potent and small neuropeptide Y agonist obtained by linking NPY 1-4 via spacer to α -helical NPY 25-36," <i>FEBS Lett.</i> , 244(1):119-122 (1989). | | | |
| | CW2 | Beck-Sickinger, A. G., et al., "Cyclopeptide analogs for characterization of the neuropeptide Y Y ₂ -receptor," <i>J Recept Res.</i> , 13(1-4):215-228 (1993). | | | |
| | CX2 | Berglund, M. M., et al., "Recent Developments in Our Understanding of the Physiological Role of PP-Fold Peptide Receptor Subtypes," <i>Exp Biol Med (Maywood)</i> , 228(3):217-244 (2003). | | | |
| | CY2 | Bischoff, A. and Michel, M. C., "Emerging functions for neuropeptide Y5 receptors," <i>Trends Pharmacol Sci.</i> , 20(3):104-106 (1999). | | | |

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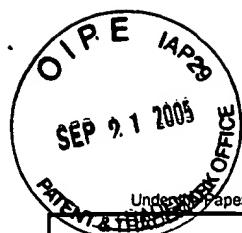
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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| | | | | Application Number 09/499526 |
| | | | | Filing Date February 10, 2000 |
| | | | | First Named Inventor Kuanghui Lu |
| | | | | Art Unit 1647 |
| | | | | Examiner Name R. M. Deberry |
| Sheet | 2 | of | 5 | Attorney Docket Number CIBT-P01-058 |

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|-----|--|
| CZ2 | Boublík, J. H., et al., "Synthesis and hypertensive activity of neuropeptide Y fragments and analogues with modified N- or C-termini or D-substitutions," <i>J Med Chem</i> , 32(3):597-601 (1989). |
| CA3 | Cabrele, C. and Beck-Sickinger, A. G., "Molecular characterization of the ligand-receptor interaction of the neuropeptide Y family," <i>J Pept Sci.</i> , 6(3):97-122 (2000). |
| CB3 | Cabrele, C., et al., "The first selective agonist for the neuropeptide YY5 receptor increases food intake in rats," <i>J Biol Chem.</i> , 275(46): 36043-36048 (2000). |
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| CE3 | Chen, Z., et al., "Ser13-phosphorylated PYY from porcine intestine with a potent biological activity," <i>FEBS Lett.</i> , 492(1-2):119-122 (2001). |
| CF3 | Conlon, J. M., "The origin and evolution of peptide YY (PYY) and pancreatic polypeptide (PP)," <i>Peptides</i> , 23(2):269-278 (2002). |
| CG3 | Corp, E. S., et al., "Feeding after fourth ventricular administration of neuropeptide Y receptor agonists in rats," <i>Peptides</i> , 22(3):493-499 (2001). |
| CH3 | Cox, H. M., et al., "Structure-activity relationships with neuropeptide Y analogues: a comparison of human Y1-, Y2- and rat Y2-like systems," <i>Regulatory Peptides</i> , 75-76:3-8 (1998). |
| CI3 | Dumont, Y., et al., "Evaluation of truncated neuropeptide Y analogues with modifications of the tyrosine residue in position 1 on Y1, Y2 and Y3 receptor sub-types," <i>Eur J Pharmacology</i> , 238(1):37-45 (1993). |
| CJ3 | Eto, B., et al., "Effects of Peptide YY and Its Analogues on Chloride Ion Secretion in Fed and Fasted Rat Jejunum," <i>Peptides</i> , 16(8):1403-1409 (1995). |
| CK3 | Fackelmann, K., "Gut hormone could curb urge to overeat", <i>USA Today.com</i> (Aug 7 2002) |
| CL3 | Feinstein, R. D., et al., "Structural Requirements for Neuropeptide Y18-36-Evoked Hypotension: A Systematic Study," <i>J Med Chem.</i> , 35(15):2836-2843 (1992). |
| CM3 | Fournier, A., et al., "Conformational and Biological Studies of Neuropeptide Y Analogs Containing Structural Alterations," <i>Mol Pharmacol.</i> , 45(1):93-101 (1994). |
| CN3 | Gobbi, M., et al., "Autoradiographic Reevaluation of the Binding Properties of 125I-[Leu31,Pro34]Peptide YY and 125I-Peptide YY3-36 to neuropeptide Y Receptor Subtypes in Rat Forebrain," <i>J Neurochem.</i> , 72(4):1663-1670 (1999). |
| CO3 | Gordon, E. A., et al., "Centrally truncated neuropeptide Y analog acts as an agonist for Y1 receptors on SK-N-MC cells," <i>Neuroscience Letters</i> , 119(2):187-190 (1990). |
| CP3 | Grundemar, L., et al., "Ligand binding and functional effects of systematic double D-amino acid residue substituted neuropeptide Y analogs on Y1 and Y2 receptor types," <i>Regulatory Peptides</i> , 62(2-3):131-136 (1996). |
| CQ3 | Halatchev, I. G., et al., "Peptide YY3-36 Inhibits Food Intake in Mice through a Melanocortin-4 Receptor-Independent Mechanism," <i>Endocrinology</i> , 145(6):2585-2590 (2004). |
| CR3 | Henry, M., et al., "Energy Metabolic Profile of Mice after Chronic Activation of Central NPY Y1, Y2, or Y5 Receptors," <i>Obesity Research</i> 13(1):36-47 (2005). |
| CS3 | Hu, Y., et al., "Identification of a Novel Hypothalamic Neuropeptide Y Receptor Associated with Feeding Behavior," <i>J Biol Chem.</i> , 271(42):26315-26319 (1996). |
| CT3 | Inui, A., "Neuropeptide Y feeding receptors: are multiple subtypes involved?" <i>Trends Pharmacol Sci.</i> , 20(2):43-46 (1999). |
| CU3 | Kanatani, A., et al., "L-152,804: Orally active and selective neuropeptide Y5 receptor antagonist," <i>Biochemical Biophysical Research Communications</i> , 272(1):169-173 (2000). |

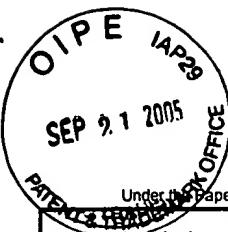
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| | | | | Application Number | 09/499526 |
| | | | | Filing Date | February 10, 2000 |
| | | | | First Named Inventor | Kuanghui Lu |
| | | | | Art Unit | 1647 |
| | | | | Examiner Name | R. M. Deberry |
| Sheet | 3 | of | 5 | Attorney Docket Number | CIBT-P01-058 |

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| | CV3 | Kanatani, A., et al., "The novel neuropeptide Y Y ₁ receptor antagonist J-104870: a potent feeding suppressant with oral bioavailability," <i>Biochem Biophys Res Commun.</i> , 266(1):88-91 (1999). | |
| | CW3 | Keire, D. A., et al., "Structure and receptor binding of PYY analogs," <i>Peptides</i> , 23(2):305-321 (2002). | |
| | CX3 | Keire, D. A., et al., "Solution structure of monomeric peptide YY supports the functional significance of the PP-fold," <i>Biochemistry</i> , 39(32):9935-9942 (2000). | |
| | CY3 | Keire, D. A., et al., "Primary structures of PYY, [Pro ³⁴] PYY, and PYY-(3-36) confer different conformations and receptor selectivity," <i>Am J Physiol. Gastrointest Liver Physiol.</i> , 279(1):G126-G131 (2000). | |
| | CZ3 | Kirby, D. A., et al., "Neuropeptide Y: Y ₁ and Y ₂ affinities of the complete series of analogues with single D-residue substitutions," <i>J Med Chem.</i> , 36(24):3802-3808 (1993). | |
| | CA4 | Kirby, D. A., et al., "Y ₁ and Y ₂ receptor selective neuropeptide Y analogues: evidence for a Y ₁ receptor subclass," <i>J Med Chem.</i> , 38(22):4579-4586 (1995). | |
| | CB4 | Krstenansky, J. L., et al., "Centrally truncated and stabilized porcine neuropeptide Y analogs: design, synthesis, and mouse brain receptor binding," <i>Proc Natl Acad Sci U S A.</i> , 86(12):4377-4381 (1989). | |
| | CC4 | Krstenansky, J. L., et al., "C-terminal modifications of neuropeptide Y and its analogs leading to selectivity for the mouse brain receptor over the porcine spleen receptor," <i>Neuropeptides</i> , 17(3):117-120 (1990). | |
| | CD4 | Leban, J. J., et al., "Novel modified carboxy terminal fragments of neuropeptide Y with high affinity for Y ₂ -type receptors and potent functional antagonism at a Y ₁ -type receptor," <i>J Med Chem.</i> , 38(7):1150-1157 (1995). | |
| | CE4 | Liu, C. D., et al., "Synthetic peptide YY analog binds to a cell membrane receptor and delivers fluorescent dye to pancreatic cancer cells," <i>J Gastrointest Surg.</i> , 5(2):147-152 (2001). | |
| | CF4 | Lundell, I., et al., "Cloning of a human receptor of the NPY receptor family with high affinity for pancreatic polypeptide and peptide YY," <i>J Biol Chem.</i> , 270(49):29123-29128 (1995). | |
| | CG4 | Makimura, H., et al., Obesity Poster Abstract No. 118 "Adrenalectomy stimulates hypothalamic Proopiomelanocortin mRNA but does not correct obesity in diet-induced obese mice." | |
| | CH4 | Markison S., et al., Obesity Poster Abstract No. 119 "Selective melanin-concentrating hormone receptor antagonists decrease feeding in rodents." | |
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| | CJ4 | Mashiko, S., et al., "Characterization of neuropeptide Y (NPY) Y ₅ receptor-mediated obesity in mice: chronic intracerebroventricular infusion of D-Trp ³⁴ NPY," <i>Endocrinology</i> , 144(5):1793-1801 (2003). | |
| | CK4 | Mashiko, S., et al., Obesity Poster Abstract No. 120 "Characterization of neuropeptide Y Y ₅ receptor mediated obesity in mice" | |
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| | CO4 | Parker, E. M., et al., "GR231118 (1229U91) and other analogues of the C-terminus of neuropeptide Y are potent neuropeptide Y Y ₁ receptor antagonists and neuropeptide Y Y ₄ receptor agonists," <i>Eur J Pharmacol.</i> , 349(1):97-105 (1998). | |
| | CP4 | Parker, E. M., et al., "[D-Trp ³⁴] neuropeptide Y is a potent and selective neuropeptide Y Y ₅ receptor agonist with dramatic effects on food intake," <i>Peptides</i> , 21(3):393-399 (2000). | |

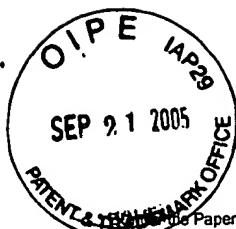
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| | | | | Art Unit | 1647 |
| | | | | Examiner Name | R. M. Deberry |
| Sheet | 4 | of | 5 | Attorney Docket Number | CIBT-P01-058 |

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| CQ4 | Parker, S. L. and Parker, M. S., "FMRFamides exert a unique modulation of rodent pancreatic polypeptide sensitive neuropeptide Y (NPY) receptors," <i>Can J Physiol Pharmacol.</i> , 78(2):150-161 (2000). |
| CR4 | Potter, E. K., et al., "A novel neuropeptide Y analog, N-acetyl [Leu ²⁸ ,Leu ³¹]neuropeptide Y-(24-36), with functional specificity for the presynaptic (Y ₂) receptor," <i>Eur J Pharmacol.</i> , 267(3):253-262 (1994). |
| CS4 | Renshaw, D. and Batterham, R. L., "Peptide YY: A Potential Therapy for Obesity," <i>Curr Drug Targets</i> , 6(2):171-179 (2005). |
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| <i>(Use as many sheets as necessary)</i> | | | | Filing Date | February 10, 2000 |
| | | | | First Named Inventor | Kuanghui Lu |
| | | | | Art Unit | 1647 |
| | | | | Examiner Name | R. M. Deberry |
| Sheet | 5 | of | 5 | Attorney Docket Number | CIBT-P01-058 |

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| CN5 | HYPERDICTIONARY definition of "Structure Activity Relationship" | |

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